

What is claimed is:

1. A chemically strengthened glass substrate for an information recording medium, wherein a strengthened layer formed by chemical strengthening exists on an outer edge surface and on an inner edge surface but substantially not on a surface on which an information recording layer is formed.

2. A glass substrate for an information recording medium as claimed in claim 1, wherein, on the surface on which the information recording layer is formed, the glass substrate comprises the following glass ingredients:

40 to 75 % by weight of  $\text{SiO}_2$ ;

3 to 20 % by weight of  $\text{Al}_2\text{O}_3$ ;

0 to 8 % by weight, zero inclusive, of  $\text{B}_2\text{O}_3$ ;

a total of 5 to 15 % by weight of  $\text{R}_2\text{O}$  compounds, where  $\text{R} = \text{Li}, \text{Na}, \text{and K}$ ;

$\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{B}_2\text{O}_3$  accounting for 60 to 90 % by weight;

a total of 0 to 20 % by weight, zero inclusive, of  $\text{R}'\text{O}$  compounds, where  $\text{R}' = \text{Mg}, \text{Ca}, \text{Sr}, \text{Ba}, \text{and Zn}$ ; and

a total of 0 to 15 % by weight, zero inclusive, of  $\text{TiO}_2 + \text{ZrO}_2 + \text{Ln}_x\text{O}_y$ , where  $\text{Ln}_x\text{O}_y$  represents at least one compound selected from the group consisting of lanthanoid metal oxides,  $\text{Y}_2\text{O}_3$ ,  $\text{Nb}_2\text{O}_5$ , and  $\text{Ta}_2\text{O}_5$ , and

wherein the following condition is fulfilled:

$1.5 < \text{Al}_2\text{O}_3 / \text{B}_2\text{O}_3$ , or  $\text{B}_2\text{O}_3 = 0 \%$ .

3. A glass substrate for an information recording medium as claimed in claim 1, wherein the glass substrate has a specific elastic modulus  $E / \rho$  of 30 or higher.

4. A glass substrate for an information recording medium as claimed in claim 1, wherein the glass substrate has a Vickers hardness Hv in a range of from 450 to 650.
5. A glass substrate for an information recording medium as claimed in claim 1, wherein the glass substrate has alkali elution A of 350 ppb or lower per 2.5-inch disk.
6. A glass substrate for an information recording medium as claimed in claim 1, wherein the glass substrate has Si elution S of 500 ppb or lower per 2.5-inch disk.
7. A glass substrate for an information recording medium as claimed in claim 1, wherein the glass substrate has a fracture toughness Kc of 0.80 MPa / m<sup>1/2</sup> or greater.
8. An information recording medium comprising:  
a glass substrate as claimed in claim 1; and  
an information recording layer formed on at least one side surface of the glass substrate.
9. An information recording medium as claimed in claim 8,  
wherein, on the surface of the glass substrate on which the information recording layer is formed, the glass substrate comprises the following glass ingredients:  
40 to 75 % by weight of SiO<sub>2</sub>;  
3 to 20 % by weight of Al<sub>2</sub>O<sub>3</sub>;  
0 to 8 % by weight, zero inclusive, of B<sub>2</sub>O<sub>3</sub>;

a total of 5 to 15 % by weight of  $R_2O$  compounds, where  $R = Li, Na, \text{ and } K$ ;

$SiO_2 + Al_2O_3 + B_2O_3$  accounting for 60 to 90 % by weight;

a total of 0 to 20 % by weight, zero inclusive, of  $R'O$  compounds, where  $R' = Mg, Ca, Sr, Ba, \text{ and } Zn$ ; and

a total of 0 to 15 % by weight, zero inclusive, of  $TiO_2 + ZrO_2 + Ln_xO_y$ , where  $Ln_xO_y$  represents at least one compound selected from the group consisting of lanthanoid metal oxides,  $Y_2O_3, Nb_2O_5, \text{ and } Ta_2O_5$ , and

wherein the following condition is fulfilled:

$1.5 < Al_2O_3 / B_2O_3$ , or  $B_2O_3 = 0 \%$ .

10. An information recording medium as claimed in claim 8,  
wherein the glass substrate has a specific elastic modulus  $E / \rho$  of 30 or higher.

11. An information recording medium as claimed in claim 8,  
wherein the glass substrate has a Vickers hardness  $H_v$  in a range of from 450 to 650.

12. An information recording medium as claimed in claim 8,  
wherein the glass substrate has alkali elution  $A$  of 350 ppb or lower per 2.5-inch disk.

13. An information recording medium as claimed in claim 8,  
wherein the glass substrate has Si elution  $S$  of 500 ppb or lower per 2.5-inch disk.

14. An information recording medium as claimed in claim 8,  
wherein the glass substrate has a fracture toughness  $K_{Ic}$  of  $0.80 \text{ MPa} / \text{m}^{1/2}$  or greater.